

REMARKS

Claims 1-26 are now pending in the application. Claims 1, 6-10, 15, and 16 have been amended. Claims 21-26 are new. The new claims and claim amendments are fully supported by the application as filed and do not present new subject matter. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

REJECTIONS UNDER 35 U.S.C. §§ 102

Claims 1-5 and 15 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Mori (JP 2001/075950). This rejection is respectfully traversed.

Amended independent Claim 1 recites, in part and with reference to Figure 5 for exemplary purposes only, “the print-image displaying section [40] includes a band-data storing part [45] that reads the designated print data, the print-image displaying section displays less than an entirety of the print image in response to a displaying signal generated by the band-data storing part.”

Amended independent Claim 15 recites, in part and with reference to Figure 5 for example, “wherein the band-data storing part [45] reads designated print data created by the print-image creating section; and wherein the print-image displaying section displays less than an entirety of the print image in response to a displaying signal created by the band-data storing part.”

The band-data storing part is used to provide the print buffer unit with an electrophoretic display (“liquid ink”), which permits continued display of an image even when power is not supplied to the display, as generally set forth in amended dependent Claims 6-10, for example. The print-image is split into parts by the print-image creating

section, and then merged by the print-image displaying section using the band-data storing part to provide the electrophoretic display, as set forth in dependent Claims 11, 12, and 18.

The Mori reference appears to disclose, with reference to Figure 1, a personal computer 101, a preview display device 104, and a printer 112. The computer 101 includes a printer driver 103. The preview display device 104 provides a high-definition display of an image as it will be printed by the printer. See [0062] of English translation. The image can be edited using navigation panel 405 and cursor keys 406/407. The Mori reference fails to disclose or suggest a band-data storing part, as set forth in amended independent Claims 1 and 15, configured to display “less than an entirety of the print image” and provide an electrophoretic display.

Mori’s disclosure of a high-definition display *teaches away* from an electrophoretic display, and thus further supports the patentability of Applicants’ invention. MPEP § 2141.02(VI) states that “[a] prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention” (emphasis in original). Reliance on Mori is thus improper.

Because Mori fails to disclose or suggest each and every feature of amended independent Claims 1 and 15, Mori fails to anticipate or render obvious Claims 1 and 15, as well as those claims dependent therefrom. Applicants thus respectfully request reconsideration and withdrawal of this Section 102 rejection of Claims 1 and 15, as well as those claims dependent therefrom.

REJECTION UNDER 35 U.S.C. § 103

Claims 16-20 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori in view of Iwabuchi et al. (JP 04-094955). Claims 6-10 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori, in view of Wang (US 2004/0243826). Claim 11 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori, in view of Tyler et al. (US 5638498). Claim 12 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori and Wang, in view of Tyler. Claim 13 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori, in view of Applicant Admitted Prior Art. Claim 14 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Mori and Wang, as modified with Tyler in view of Applicant Admitted Prior Art. These rejections are respectfully traversed.

Amended independent Claim 16 recites, in part and with reference to Figure 5 for example, “a band-data storing part [45] included with the print-image displaying section [40], the band-data storing part is operable to read the print data; a display panel [41] included with the print-image displaying section configured to display less than an entirety of the print image in response to a display signal generated by the band-data storing part.”

As explained in the Remarks regarding the Section 102 rejection, the Mori reference fails to disclose or suggest the claimed “band-data storing part” for providing an electrophoretic (“liquid ink”) display. The Iwabuchi et al. reference discloses a battery powered print buffer. Iwabuchi et al. also fails to disclose or suggest the claimed “band-data storing part.”

Mori and Iwabuchi et al. each fail to disclose each and every feature of amended independent Claim 16. Therefore, combination of the references fails to render Claim 16 obvious, as well as those claims dependent therefrom. Applicants respectfully request reconsideration and withdrawal of this Section 103 rejection of Claim 16 and those claims dependent therefrom.

Dependent Claims 6-10 have been amended to generally recite that the image displaying section is “operable to continue to display” content after the power supply is cut. The amendments clarify that the electrophoretic (“liquid ink”) display continues to display the image without power being supplied to the display. This is in contrast to Mori, which discloses a high-definition display that requires power, and Wang, which discloses a data protection device connected to a back-up battery to protect and maintain saved data. Both Mori and Wang fail to render obvious an electrophoretic display that is operable to continue to display content without a power supply, as generally set forth in amended Claims 6-10. Applicants therefore respectfully request reconsideration and withdrawal of this Section 103 rejection of Claims 6-10.

NEW CLAIMS

New Claims 21-26 have been added. The new claims are fully supported by the application as filed, such as at Figure 5 and pages 14-15. Applicants thus respectfully request entry and consideration of the new claims.

The new claims are also not anticipated by, or obvious in view of, the cited art. For example, new dependent Claims 21, 23, and 25 generally recite that the print-image displaying section displays a whole field, or entirety of, the print image by repeatedly

reading the designated print data and displaying different parts of the print image in response to receipt of different displaying signals created by the band-data storing part.

New dependent Claims 22, 24, and 26 generally recite, with reference to Figure 5 for example, a plurality of band-data areas 1-7 in the display panel 41, a plurality of driving circuits 43 each corresponding to one of the plurality of band-data areas, and a selector switch [44] selecting a connection between one of the plurality of driving circuits and the band-data storing part.

The features of new dependent Claims 21-26 provide the print-buffer display with an electrophoretic display, which the cited art fails to disclose or suggest. Applicants therefore respectfully request allowance of new Claims 21-26.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: August 10, 2010

HARNESS, DICKEY & PIERCE, PLC.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

GGS/BEW/BGS

15406288.1

By: /G. Gregory Schivley/
G. Gregory Schivley
Reg. No. 27,382
Bryant E. Wade
Reg. No. 40,344